

IN THE CLAIMS:

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1. (Original) A process for producing a contact structure for connecting two substrates comprising the following process steps:

applying solder material to terminal areas of a first substrate to form spacing metallizations; and

bonding the first substrate with a second substrate, the bonding between the terminal areas of the first substrate and a contact surface area of the second substrate being performed by means of a partial fusion of the spacing metallizations.

2. (Original) The process according to claim 1, wherein the spacing metallizations are partially fused by means of application of laser energy to the spacing metallizations.

3. (Currently amended) The process according to claims 1, wherein the terminal areas of the first substrate are provided with an intermediate metallization prior to applying solder material.

4. (Currently amended) The process according to claims 1, wherein the spacing metallizations are given a spherical shape.

5. (Currently amended) The process according to claims 1, wherein ~~the~~ an adhesive compound is applied to the spacing metallizations.

6. (Currently amended) The process according to claims 1 wherein ~~the~~ an adhesive compound is applied to contact areas of the second substrate provided for bonding to the spacing metallizations.

7. (Original) The process according to claim 5, wherein the adhesive compound is applied by means of in application device which can be moved relative to the spacing metallizations.

8. (Original) The process according to claim 5, wherein the adhesive compound is applied by immersing the spacing metallizations in a volume of the conductive adhesive compound.

9. (Original) The process according to claim 1, wherein, to produce the contact structure, the first substrate with its spacing metallizations is positioned against the contact surface of the second substrate with interposition of the conductive adhesive mass.

10. (Currently amended) The process according to claims 1, wherein a gap remaining between the substrate surfaces after bonding the two substrates is filled with a filler material.

11. (Original) The process according to claim 10, wherein the filler material serves to secure the mechanical joint between the first substrate and second substrate.

12. (New) A process for producing a contact structure for connecting two substrates comprising the following process steps:

applying solder material to terminal areas of a first substrate to form spacing metallizations; and

melting a portion of said spacing metallization in a region of terminal areas of said second substrate to effect a fusion of said melted portion of said spacing metallization with said terminal areas of said second substrate.

13. (New) The process according to claim 12, wherein said melting of a portion of said spacing metallizations is performed by application of laser energy to the spacing metallizations.

14. (New) The process according to claim 12, wherein the terminal areas of the first substrate are provided with an intermediate metallization prior to applying solder material.

15. (New) The process according to claim 12, wherein the spacing metallizations are given a substantially spherical shape.

16. (New) The process according to claim 12, wherein a gap remaining between the substrate surfaces after bonding the two substrates is filled with a filler material.

17. (New) A process for producing a contact structure for connecting two substrates

comprising the following process steps:

applying solder material to terminal areas of a first substrate to form spacing metallizations; and

maintaining a majority portion of said spacing metallization in a solid state providing a spacing between said first and second substrates while melting a portion of said spacing metallization in a region of terminal areas of said second substrate to effect a fusion of said melted portion of said spacing metallization with said terminal areas of said second substrate.

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concede* 18. (New) The process according to claim 17, wherein said melting of a portion of said spacing metallizations is performed by application of laser energy to the spacing metallizations.

19. (New) The process according to claim 17, wherein the terminal areas of the first substrate are provided with an intermediate metallization prior to applying solder material.

20. (New) The process according to claim 17, wherein the spacing metallizations are given a substantially spherical shape.

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